IN THE CLAIMS

This listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims

1. (currently amended) A method of statically writing data on standard passive magnetic stripe ~~of a smart~~ card by imposing magnetic field of a given polarity on each selected segment of the magnetic stripe, such that data on the magnetic stripe can be read by a standard magnetic card reader and interpreted as digital bits, comprising:

(i) providing a multi-dimensional conductor array statically placed proximate to the magnetic stripe without relative motion between them~~, the number of conductors in the array is considerably smaller than the number of segments, and each segment is associated with at least two conductors~~;

(ii) providing current drivers for sending currents in controlled direction through the conductor array;

(iii) sending currents, using said current drivers, through conductors of the array, such that for each one of the selected array conductors proximate to a magnetic stripe segment, composite currents flow through said ~~it's associated at least two~~ conductors, overcoming the coersivity of the corresponding segment of the magnetic stripe.

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5. (currently amended) The method according to Claim 1, wherein said multi-dimensional conductor array ~~being~~ becomes a two-dimensional matrix conductor array.

6. (original) The method according to Claim 5, wherein said two-dimensional matrix conductor array includes X conductors in the row dimension of the matrix and Y conductors in the column dimension of the matrix, such that each domain is associated with a unique entry (i,j) identified by a conductor *i* in the row dimension and conductor *j* in the column dimension of the matrix;

and wherein sending currents, using said current drivers, stipulated in (iii) includes sending a current through the *i* conductor and sending a current through the *j* conductor where the sum of the *i* current and the *j* current overcomes the coersivity of the respective domain.

7. (original) The method according to claims 5 or 6, wherein said *X=Y* and wherein said *I* current and *j* current are of identical magnitude.

8. (original) The method according to anyone of Claims 6 and 7, wherein said provision of two dimensional matrix includes provision of a matrix layout such that each of said X and Y conductors have a square waveform like shape and active conductor segments of each *i,j,* conductors are placed proximate and substantially parallel to their associated domain.

9. (currently amended) The method according to Claim 1, wherein said multi-dimensional conductor array ~~being~~ becomes a three-dimensional matrix conductor array.

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42. (currently amended) A method for statically writing data on a magnetic stripe track of a standard passive magnetic card, comprising:

(i) providing a conductor array proximate to the magnetic stripe statically without relative movement between them;

(ii) providing current drivers for sending currents in a controlled direction through the conductor array; and

(iii) sending currents, using said current drivers, through conductors of

the array, for generating magnetic field of sufficient magnitude so as to overcome the coersivity of the magnetic stripe.

43. (original) The method according to Claim 42, wherein said conductor array includes at least one conductor for each magnetic domain in the magnetic stripe.

44. (currently amended) The method according to Claim 42, wherein said conductor array ~~being~~ is a multi-dimensional conductor array.

45. (currently amended) The method according to Claim 44, wherein said multi-dimensional conductor array, ~~being~~ is a two-dimensional matrix.

46. (currently amended) The method according to Claim 44, wherein said multi-dimensional conductor array, ~~being~~ is a three-dimensional matrix.

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53. (currently amended) A system for statically writing data on a standard passive magnetic stripe of a card, comprising:

a conductor array capable of being placed proximate to the magnetic stripe statically and without relative motion between them;

current drivers configured to send currents in a controlled direction

through the conductor array;

a device configured to send~~ing~~ currents, using said current drivers, through conductors of the array, for generating magnetic field of sufficient magnitude so as to overcome the coersivity of the magnetic stripe.

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75. (original) The system according to Claim 53, wherein said system includes a programmable device and associated input means and storage for storing information indicative of plurality of cards and, in response to user selection, data is converted to currents sent in controlled direction through the conductor array.

76. (currently amended) The system according to Claim 75, wherein said programmable device, associated input means and storage, conductor array, and current drivers are all integral in the system.

77. (currently amended) The system according to Claim 75, wherein said programmable device, associated input means and storage~~,~~ or parts thereof, are accommodated in external device that is coupled to said conductor array and current drivers.

78. (currently amended) The system according to Claim 77, wherein said external device ~~being~~ is a PDA or cellular telephone.

79. (original) The system according to Claim 76, wherein said system is included in PDA or cellular telephone.

80. (currently amended) The system according to Claim 75, wherein said data

~~being~~ is at least one member selected from the group that includes: data indicative of a selected card, data required to activate a card, data required to configure a new card, data required to complete transaction.

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